

# Daniel Chou

## FULL-STACK SOFTWARE ENGINEER

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### TECHNICAL SKILLS

**Languages** - JavaScript, TypeScript, CSS, HTML, Python, SQL

**Frameworks/Tools** - React, jQuery, Jinja, Bootstrap, Express, Node, Flask, Django, SQLAlchemy, PostgreSQL, Git

**Testing** - Jest, React Testing Library, Jasmine, Test Driven Development

### SOFTWARE ENGINEERING EXPERIENCE

#### Rithm SIS | Full Stack Software Engineer Intern

*Sept 2023 - Oct 2023*

- Built new features, conducted research, and debugged the Student Information System, a live-production Django codebase with over 80,000 lines of code.
- Wrote unit and integration tests with factories while maintaining 95% test coverage throughout the development phase.
- Designed and built a blogging feature for students and staff to create and post blogs on the SIS website.
- Collaborated using agile methodologies to deliver new features successfully, participating in daily stand-ups, story-pointing tickets and completing week-long sprints.
- Presented technical topics and walkthroughs, including the MVC (Model-View-Controller) pattern, to staff and classmates.

### TECHNICAL PROJECTS

#### Warbler | Flask, PostgreSQL, SQLAlchemy | GitHub | Demo

- Replicated social media app with user authentication and authorization functionalities, implementing secure session management using Flask WTFORMS with CSRF protection, and Bcrypt password hashing in the Flask backend.
- Utilized SQLAlchemy ORM to leverage object-oriented programming methods, enabling features that allow users to post/like messages, follow other users, and view a feed of messages from their followers.

#### Jobly | Express.js, React, PostgreSQL | GitHub

- Designed a single-page job application site with authentication and authorization features implemented using JWT and middleware functions in the Express backend, established database connections with PostgreSQL, and secured routes in the React frontend.
- Built and tested RESTful API with Express and Jest that enables users to create listings for companies and jobs with optional filtering criteria, with administrative privileges for admins.

### ADDITIONAL WORK EXPERIENCE

#### Lamont Financial Services Corporation | Associate, Municipal Fixed-Income

*Jul 2021 - Jun 2023*

- Conducted quantitative analysis, debt modeling, and credit research to assist issuer clients in making capital structure recommendations, providing market guidance, and offering bond pricing advice.
- Collaborated with senior advisors to create presentation materials by compiling and interpreting historical financial data and economic projections to communicate key findings and tailored proposals.

#### New York State Homes and Community Renewal | Debt Issuance Analyst

*Nov 2019 - Jul 2021*

- Managed various phases of the debt financing process for the agency's \$2.1 billion annual multi-family and single-family housing bond programs, including preparing official statements, conducting project cash flow analysis, obtaining credit ratings, and reviewing closing documents to ensure timely completion.

### EDUCATION

#### Rithm School - Full Stack Engineering Program

*Oct 2023*

- 17-week program based in San Francisco with a focus on JavaScript, Python, Flask/Express/React frameworks and relational database management.

#### Baruch College, New York, NY - B.B.A. in Finance

*Jun 2016*